

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	827	408/79,80.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/29 18:42
S2	1281	408/201,203.5,233,713.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/11/23 08:39
S4	254	407/48.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 08:56
S5	686	409/132.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/28 15:57
S6	0	408/1.11.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/28 15:58
S7	1225	82/1.11.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/28 15:58
S8	49	("2682181"   "2749809"   "2924152"   "3228268"   "3229555"   "3835738"   "3875832"   "3917187"   "3927584"   "3992123"   "3999452"   "4114484"   "4199286"   "4257289"   "4411178"   "4434689"   "4437366"   "4449871"   "4459883"   "4470734"   "4483522"   "4483647"   "4498820"   "4615243"   "4620823"   "4761104"   "4784028"   "4819525"   "4889454"   "4915552"   "5007778"   "5033347"   "5069094"   "5077456"   "5393176"   "5531550"   "5641168"   "5711197"   "5954462"   "5979267"   "6082235"   "6202522"   "6279437"   "6309145").PN. OR ("6755101"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/28 16:17

## EAST Search History

S9	1	S2 and film with remov\$4	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/28 16:19
S10	16180	hall.in.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/28 16:20
S11	2696	S10 and tube	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/28 16:19
S12	544	S10 and tube and mill\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 10:37
S13	0	hall-randall.in.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/28 16:22
S14	0	hall-randall-j.in.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/28 16:22
S15	7	S10 and tube and mill\$4 adj head	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/23 08:40
S16	2	("5542177").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/28 16:31
S17	2	("5356248").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/28 16:31
S18	1281	408/201,203.5,233,713.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/29 17:07
S19	77	S18 and remov\$4 same thick\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/29 17:09
S20	9	S18 and remov\$4 same (wall near thick\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/29 17:09

## EAST Search History

S21	12	("3759625"   "3999452"   "4498820"   "4633555"   "4761104"   "5007778"   "5033347"   "5044075"   "5171111").PN. OR ("5356248").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/29 17:28
S22	33	("0759425"   "1721378"   "3662444"   "3966349"   "4157879"   "4547100"   "4573831"   "4595320"   "4681485"   "4915182"   "5033916"   "5054972"   "5094573"   "5176191"   "5328304"   "5395186"   "5401125"   "5658101"   "5782589"   "5800079"   "5810524"   "5893683"   "6004080"   "6033159"   "6086290"   "6102630"   "6123490"   "6158927"   "6220794"   "6379090"   "6533506").PN. OR ("6761514").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/29 17:59
S23	2	("4830551").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/29 18:38
S26	229	408/138.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/29 18:39
S27	26	S26 and bevel\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/29 18:39
S28	317	repair\$4 same (boiler adj tube)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/29 18:44
S29	35	("1261348"   "2362708"   "3157076"   "3228268"   "3532010"   "3595107"   "3759625"   "3810514"   "3999452"   "4043699"   "4440531"   "4498820"   "4633555"   "4691600"   "4693643"   "4761104"   "4830551"   "4940370"   "4958542"   "5007778"   "5033347"   "5044075"   "5052864"   "5171111"   "5304018").PN. OR ("5542177").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/29 18:52

## EAST Search History

S30	42	("1863067"   "2641944"   "2716812"   "2821781"   "2869413"   "3075219"   "3279059"   "3396467"   "3601891"   "3603182"   "3636803"   "3714712"   "3732618"   "3803895"   "3817649"   "3999452"   "4227431"   "4289430"   "4317279"   "4418591"   "4443943"   "4446620").PN. OR ("4691600").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/30 09:27
S31	14	("1340474"   "3875832"   "3999452"   "4114484"   "4257289"   "4287796"   "4449871"   "4601222"   "4691600").PN. OR ("4958542").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/30 09:46
S32	974	29/402.06,402.19,402.11,890.031.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/30 09:54
S33	99	S32 and out\$3 with thick\$4	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/30 09:48
S34	56	S33 and tube	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/30 09:48
S35	3113	tube and diameter and film adj remov\$4	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/30 09:55
S36	422	tube and diameter same film adj remov\$4	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/30 09:55
S37	63	tube and diameter with film adj remov\$4	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/30 09:59
S38	2	("4691600").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 10:06
S39	2	("5314270").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 10:07
S40	2	("20050053440").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 10:08

## EAST Search History

S41	3	("3157076").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 10:10
S42	2	("5314270").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 10:10
S43	2	("5542177").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 10:10
S44	0	("remov\$4same(weldadj1overlay)").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 10:40
S45	52	remov\$4 same (weld adj1 overlay)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/30 10:40
S46	3	("3157076").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 11:01
S47	2	("5033347").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 11:02
S48	2	("20050053532").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 11:03
S49	2	("20050053432").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 11:03
S50	2	("4743149").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 11:40

## EAST Search History

S51	21	("2177103"   "2304405"   "2401490"   "2682181"   "2749809"   "3164062"   "3175465"   "3286553"   "3386337").PN. OR ("4743149").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/30 11:06
S52	2	("4830551").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 11:40
S53	2	("4872249").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 11:45
S54	2	("4979294").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 11:49
S55	2	("5044075").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 11:51
S56	2	("5356248").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 11:51
S57	2	("5531550").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 11:53
S58	2	("5542177").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 13:59
S59	2	("3911768").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/06/30 14:02
S60	2	("20050053440").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/04 18:49

## EAST Search History

S61	254	407/48.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 10:02
S62	7	S61 and countersunk same bore	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 08:58
S63	6	S61 and countersink same bore	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 08:56
S64	511	insert and flush and countersunk same bore	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 08:58
S65	321	insert and cut\$4 and flush and countersunk same bore	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 08:59
S66	2	S65 and 407/113.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 09:02
S67	9	S65 and "407"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 09:04
S68	56	"407"/\$.ccls. and bolt same flush	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 09:04
S69	18	"407"/\$.ccls. and bolt with flush	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 09:43
S70	482	"407"/\$.ccls. and bolt with extend\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 09:48

## EAST Search History

S71	2	"407"/\$.ccls. and bolt with extend\$3 adj out	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 09:50
S72	562	"407"/\$.ccls. and bolt with head	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 09:50
S73	13	S72 and extend\$3 adj out	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 09:50
S74	3	("3157076").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:03
S75	2	("5033347").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:03
S76	2	("20050053432").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:07
S77	2	("4889454").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:08
S78	2	("5314270").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:09
S79	2	("4091699").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:10
S80	2	("4192067").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:10



## EAST Search History

S81	2	("4449871").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:11
S82	3	("4498820").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:11
S83	2	("4601222").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:16
S84	2	("4633555").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:16
S85	2	("4689920").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:16
S86	2	("4718201").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:19
S87	2	("4743149").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:19
S88	2	("4830551").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:19
S89	2	("4872249").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:20
S90	2	("4979294").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:20

## EAST Search History

S91	2	("5044075").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:21
S92	2	("5356248").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:21
S93	2	("5531550").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/05 10:22
S94	8	"407"/\$.ccls. and insert same (bolt with collar)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 10:23
S95	25	"407"/\$.ccls. and insert same (screw with collar)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/05 10:28
S96	2	("4739688").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/10 18:50
S10 1	2	("20050053432").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/10/13 09:10
S10 2	2	("20050053440").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/10/13 09:10
S10 3	2	("5071292").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/10 15:51
S10 4	2	("5791832").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/10 15:51

## EAST Search History

S10 5	2	("5921721").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/10 15:52
S10 6	2	("6050752").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/10 15:52
S10 7	2	("6213691").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/10 15:53
S10 8	2	("6224300").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/10 15:53
S10 9	2	("6540447").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/10 15:53
S11 0	2	("6955507").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/22 14:41
S11 1	23	("20050053440"   "3157076"   "4091699"   "4192067"   "4449871"   "4498820"   "4601222"   "4633555"   "4689920"   "4718201"   "4739688"   "4743149"   "4830551"   "4872249"   "4889454"   "4979294"   "5033347"   "5044075"   "5314270"   "5356248"   "5531550"   "5542177").PN. OR ("6955507").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/22 14:42
S11 2	460	82/113.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/11/23 08:31
S11 3	1287	408/201,203.5,233,713.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/11/23 08:40

## EAST Search History

S11 4	4	S113 and tube and mill\$4 adj head	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/23 08:40
S11 5	44	S113 and (tube or pipe) and mill\$4	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/23 08:41
S11 6	29	S113 and (tube or pipe) and bevel\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/23 08:41
S11 7	1287	408/201,203.5,233,713.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/11/23 08:42
S11 8	7	("1204994").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/23 09:07
S11 9	5	("3051059").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/23 09:09
S12 0	5	("3228268").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/23 09:09
S12 1	2	("4364290").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/23 09:10
S12 2	2	("4459883").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/11/23 09:10
S12 3	228764	punch adj "1" drill	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 15:33
S12 4	441	punch adj1 drill	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 15:33

## EAST Search History

S12 5	3604	punch same drill	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 15:34
S12 6	662	S125 and lock	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 15:35
S12 7	75	S125 and lock and door	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/13 15:35
S12 8	23235	collet	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 11:34
S12 9	16744	hall.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 10:37
S13 0	590	S129 and tube and mill\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 11:18
S13 1	11	S128 and S130	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 10:38
S13 2	1650	S128 and tube and mill\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 11:18
S13 3	92	"408"/\$.ccls. and S132	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 11:35
S13 4	807	collet and arbor	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 11:35
S13 5	79	"408"/\$.ccls. and S134	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 11:35
S13 6	347	collet with arbor	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 11:35
S13 7	32	"408"/\$.ccls. and S136	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 11:43
S13 8	116	tube same (secur\$3 near arbor)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 11:44

## EAST Search History

S13 9	8	tube same (secur\$3 near arbor) and collet	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 14:26
S14 0	285	weld adj overlay	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 14:26
S14 1	21	remov\$3 with (weld adj overlay)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 16:44
S14 2	23	("20050053440"   "3157076"   "4091699"   "4192067"   "4449871"   "4498820"   "4601222"   "4633555"   "4689920"   "4718201"   "4739688"   "4743149"   "4830551"   "4872249"   "4889454"   "4979294"   "5033347"   "5044075"   "5314270"   "5356248"   "5531550"   "5542177").PN. OR ("6955507").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/31 14:29
S14 3	7	("1204994").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/31 16:45
S14 4	5	("3051059").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/31 16:45